CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/NT/CSR-04/022u/CEMENT/2016-17 Date: 04.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. N. Thippeswamy,** #9, 1st Cross, Saraswathipuram, Bangalore Gate, Chitradurga.
*NAME OF THE WORK	:	Providing street name board at AGB Layout, Babanna Layout and Medarahalli in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/SSD/PR/75/2016-17 Dated: 02.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.04.2016
PERIOD OF TESTING	:	02.04.2016 to 04.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.12/NT/CSR-04/022u/SAND-Gradation/2016-17 : 04.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Thippeswamy,**
#9, 1st Cross, Saraswathipuram, Bangalore Gate, Chitradurga.

*** Name of Work** : Providing street name board at AGB Layout, Babanna Layout and Medarahalli in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/75/2016-17 Dated: 02.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.04.2016

Date of Testing : 04.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.40	90-100	90-100	90-100	95-100
2.36	77.40	60-95	75-100	85-100	95-100
1.18	54.90	30-70	55-90	75-100	90-100
600 Micron	25.90	15-34	35-59	60-79	80-100
300 Micron	13.90	5-20	8-30	12-40	15-50
150 Micron	4.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Quality Manager

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Job No.: CTCE/BBMP/W.No.12/NT/CSR-04/022u/AGG/GR/2016-17 : 04.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Thippeswamy,**
#9, 1st Cross, Saraswathipuram, Bangalore Gate, Chitradurga.

*** Name of Work** : Providing street name board at AGB Layout, Babanna Layout and Medarahalli in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/75/2016-17 Dated: 02.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 02.04.2016

Date of Testing : 04.04.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.00	95-100	85-100
20	35.54	30-70	0-20
10	17.02	10-35	0-5
4.75	3.96	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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VISHWANATH C.
Quality Manager

AE-12

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಗ್ರೇಟರ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಯಶವಂತಪುರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.12/NT/CSR-04/022u/AGG/GR/2016-17 : 04.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Thippeswamy,**
#9, 1st Cross, Saraswathipuram, Bangalore Gate, Chitradurga.

*** Name of Work** : Providing street name board at AGB Layout, Babanna Layout and Medarahalli in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/75/2016-17 Dated: 02.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 02.04.2016

Date of Testing : 04.04.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.34	95-100	85-100
10	31.36	25-55	0-20
4.75	7.50	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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VISHWANATH A.
Quality Manager

AE-12
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Job No.: CTCE/BBMP/W.No.12/NT/CSR-04/022u/CUBE/2016-17 05.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N. Thippeswamy,** #9, 1st Cross, Saraswathipuram, Bangalore Gate, Chitradurga.
* Name of the work	: Providing street name board at AGB Layout, Babanna Layout and Medarahalli in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: AEE/SSD/PR/75/2016-17 Dated: 02.04.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 05.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2016	05.05.2016	8.139	485.5	21.58
2	07.04.2016	05.05.2016	8.292	493.6	21.94
3	07.04.2016	05.05.2016	8.386	516.3	22.95

* Information is furnished by the Customer/Representative

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VISHWANATH C.
Quality Manager

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ಎಸ್.ಎಂ. ಕೃಷ್ಣ ರಮೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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